

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

March 25, 2004

Stormwater Section Division of Water Quality 943 Washington Square Mall Washington, NC 27889

Attention: Mr. Bill Moore

Dear Mr. Moore.

Subject:

Replacement of bridge number 24 over on SR 1140 over Hall's Creek, Pasquotank County, Federal Project Number BRZ-1140(2), State Project Number 8.2110401, TIP B-4222, \$420.00 Debit work order 8. 2110401, WBS Element 33566.1.1.

Gregory J. Thorpe, Ph.D., Environmental Management Director Project Development and Environmental Analysis Branch

Enclosed is a stormwater permit application form, stormwater management narrative, and one copy of the project plans. Please, debit the amount of \$420.00 from TIP B-4222, Federal Project Number BRZ-1140(2), State Project Number 8.2110401, WBS Element 33566.1.1. Please review this project for authorization by your section of NCDWQ. If you have any questions regarding this project or need additional information, please feel free to contact Mr. Marshall Clawson, P.E. of NCDOT Hydraulics Unit at (919) 250-4100, or Michael Turchy of NCDOT Project Development and Environmental Analysis Branch at (919) 715-1468.

Sincerely,

cc: Ms. Cathy Brittingham, NCDCM

Mr. Mr. David Franklin, USACE, Wilmington

Mr. John Dorney, DWQ, Raleigh

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Ms. Art McMillan, P.E., Highway Design

Mr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. Don Conner, P.E., Division Engineer

Mr. Clay Willis, DEO

	OFFICE USE ONLY	
Date Received	Fee Paid	Permit Number

State of North Carolina Department of Environment and Natural Resources Division of Water Quality

STORMWATER MANAGEMENT PERMIT APPLICATION FORM

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION LINEAR ROADWAY PROJECT

This form may be photocopied for use as an original.

DWO Stormwater Management Plan Review:

PROJECT INFORMATION

A complete stormwater management plan submittal includes this application form, a supplement form for each BMP proposed (see Section V), design calculations, and plans and specifications showing all road and BMP details.

NCDOT Project Number: 8.2110401 (B-4222) County: Pasquotank	
Project Name: Bridge #24 over Hall's Creek on SR 1140 (Hall's Creek Road)	
Project Location: North of Nixonton on SR 1140 (Hall's Creek Road)	
Contact Person: <u>Marshall Clawson</u> Phone: (919) 250-4100 Fax: (919) 250-4108	
Receiving Stream Name: <u>Hall's Creek</u> River Basin: <u>Pasquotank</u> Class: <u>C Sw</u>	
Proposed linear feet of project: 0.099 Miles	
Proposed Structural BMP and Road Station (attach a list of station and BMP type if more room is needed):	
N/A	
Type of proposed project: (check all that apply):	
☐ New ☐Widening ☐2 lane* ☐4 lane* ☐Curb and Gutter ☒Bridge Replacement	
Other (Describe)	
*? lane and A lane imply that readside ditches are used unless Curb and Cutter is also checked	

II. REQUIRED ITEMS CHECKLIST

Initial in the space provided below to indicate the following design requirements have been met and supporting documentation is attached. Supporting documentation shall, at a minimum, consist of a brief narrative description including (1) the scope of the project, (2) how the items below are met, (3) how the proposed best management practices minimize water quality impacts, and (4) any significant constraints and/or justification for not meeting a, b, c and d to the maximum extent practicable.

Designer's Initials

a. The amount of impervious surface has been minimized as much as possible.

The runoff from the impervious areas has been diverted away from surface waters as much as possible.

Best Management Practices are employed which minimize water quality impacts.

Vegetated roadside ditches are 3:1 slope or flatter.

Form SWU-112 Rev 04.00

III. OPERATION AND MAINTENANCE AGREEMENT

I acknowledge and agree by my initials below that the North Carolina Department of Transportation is responsible for the implementation of the four maintenance items listed. I agree to notify DWQ of any operational problems with the BMP's that would impact water quality or prior to making any changes to the system or responsible party.

Maintenance Engi	neer's Initials
RKS a. B	MP's shall be inspected and maintained in good working order.
RKS b. E	roded areas shall be repaired and reseeded as needed.
A 1	formwater collection systems, including piping, inlets, and outlets, shall be maintained to insure proper
fu	nctioning.
Maintenance Engi	neer's Name: Roudd & Saure
2	Title: County Maintenance Engineer
	- County mount of the first of
IV. APPLIC	ATION CERTIFICATION
I, (print or type no	me) Philip 5 Harris III of PDEA Branch
certify that the inf	ormation included on this permit application form is, to the best of my knowledge, correct and that the
	astructed in conformance with the approved plans and that the proposed project complies with the 5A NCAC 2H .1000.
requirements of 1.	A NCAC 211 .1000.
Title: May	ager, Office of Natural Environment-PDEA
1 0	The second of th
Address: 1	SOUTH WILMINGTON ST.
Signature:	Date: 3 29 0 9
v. SUPPLE	EMENT FORMS
The applicable starspecified for this pavailability of the	te stormwater management permit supplement form(s) listed below must be submitted for each BMP project. Contact the Stormwater and General Permits Unit at (919) 733-5083 for the status and
availability of the	c totins.
Form SWU-102	Wet Detention Basin Supplement
Form SWU-103	Infiltration Basin Supplement
Form SWU-104	Low Density Supplement
Form SWU-105	Curb Outlet System Supplement
Form SWU-106	Off-Site System Supplement
Form SWU-107	Underground Infiltration Trench Supplement
Form SWU-108	Neuse River Basin Supplement
Form SWU-109	Innovative Best Management Practice Supplement
Form SWU-110	Extended Dry Detention Basin Supplement

STORMWATER MANAGEMENT PLAN

TIP No. B-4222 Pasquotank County 3/19/04

Project Description

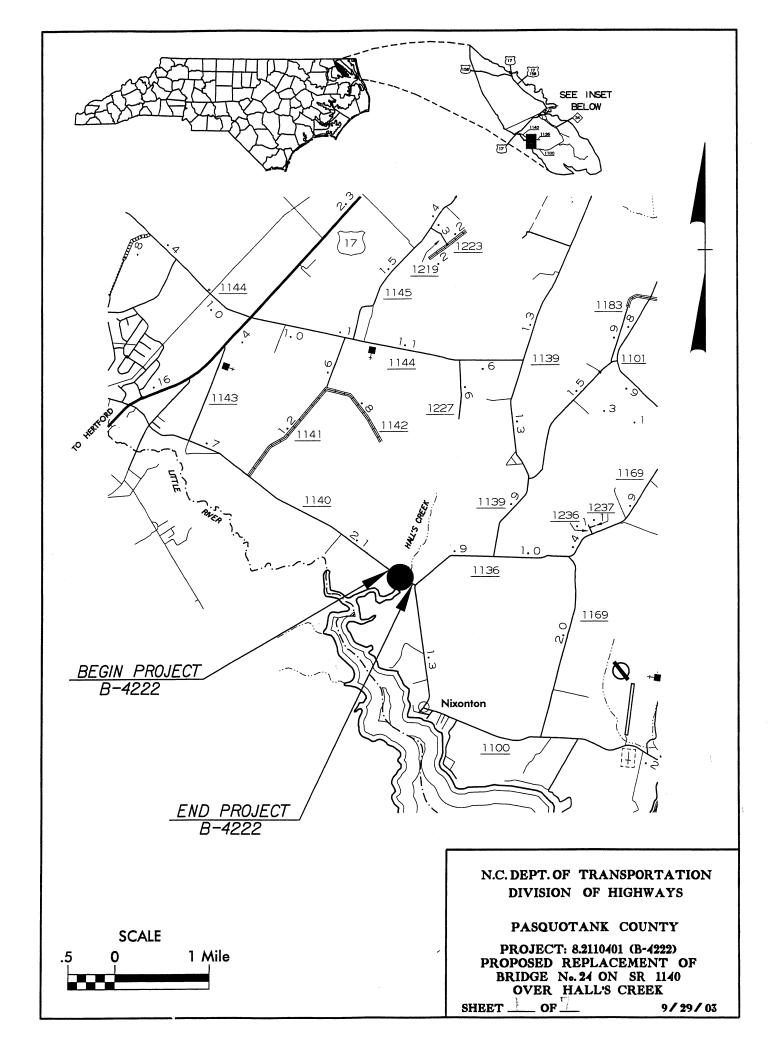
The project consists of the replacement of Bridge #24 over Halls Creek on SR 1140. The proposed bridge is 2 @ 52' – Cored Slab structure. The proposed typical section consists of a two lane grass shoulder. The only drainage pipes proposed are 2-15" driveway pipes. Otherwise, all drainage is conveyed in grass lined roadway ditches. No deck drains are proposed on the bridge and therefore no water will be directly discharged into Halls Creek.

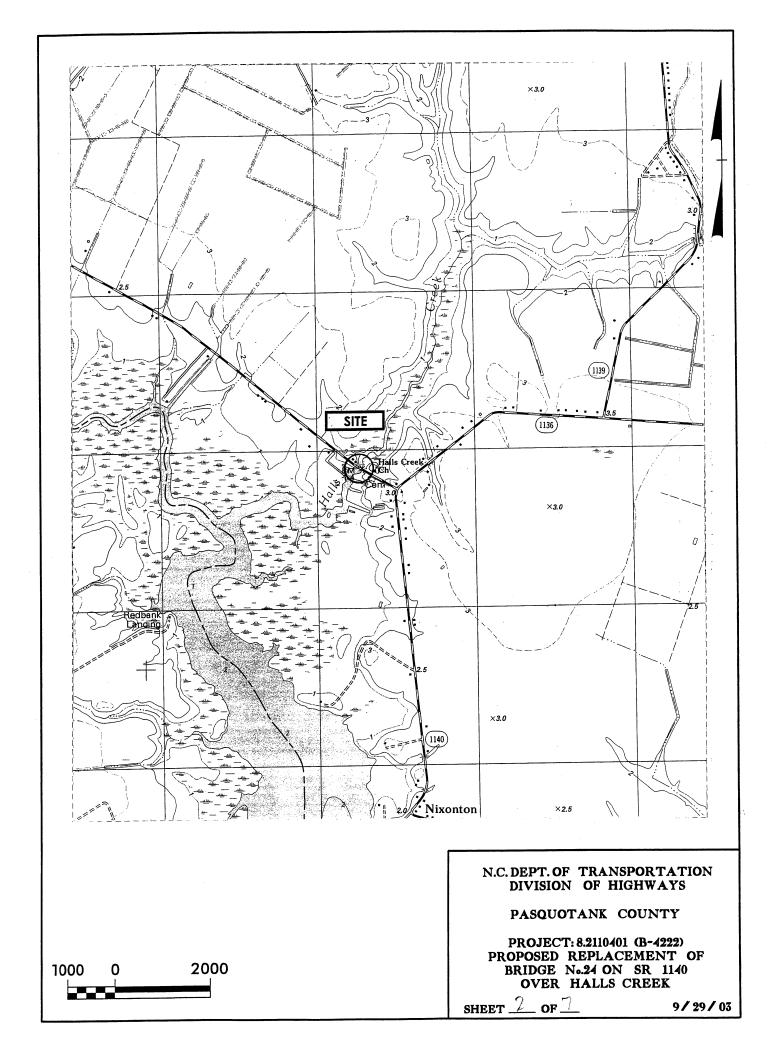
Project Involvement

The project will require temporary cofferdams in order to construct the interior piers for the proposed bridge. Also, if necessary during construction, portions of the existing bulkhead may need to be replaced. However, if the bulkheads remain stable during construction they will be left, as is.

Best Management Practices

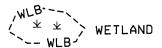
Best Management Practices (BMPs) utilized on the project are as follows: promotion of sheet flow and infiltration with grass shoulders and flat slope grass ditches and the avoidance of direct discharge into Halls Creek by not using bridge deck drains. Additional Best Management Practices consisting of temporary sediment and erosion control procedures will be utilized by NCDOT during construction.





LEGEND





DENOTES FILL IN WETLAND

DENOTES FILL IN SURFACE WATER

DENOTES FILL IN SURFACE WATER (POND)

DENOTES TEMPORARY FILL IN WETLAND

DENOTES EXCAVATION IN WETLAND

DENOTES TEMPORARY FILL IN SURFACE WATER

* * * * * DENOTES MECHANIZED CLEARING

← ← FLOW DIRECTION

TOP OF BANK

.....WE ... EDGE OF WATER

___C__ PROP. LIMIT OF CUT

.__F__ PROP.LIMIT OF FILL

PROP. RIGHT OF WAY

-- NG--- NATURAL GROUND

___PL_ PROPERTY LINE

--- TDE --- TEMP. DRAINAGE EASEMENT

— PDE — PERMANENT DRAINAGE EASEMENT

- EAB -- EXIST. ENDANGERED

ANIMAL BOUNDARY

-- EPB-- EXIST. ENDANGERED PLANT BOUNDARY

...V.... WATER SURFACE



LIVE STAKES



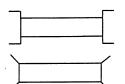
BOULDER



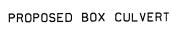
COIR FIBER ROLLS

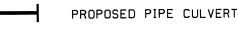


ADJACENT PROPERTY OWNER OR PARCEL NUMBER



PROPOSED BRIDGE





(DASHED LINES DENOTE EXISTNG STRUCTURES)



SINGLE TREE

MOODS LINE منہ MOODS LINE



DRAINAGE INLET

ROOTWAD



VANE



RIP RAP



RIP RAP ENERGY DISSIPATOR BASIN

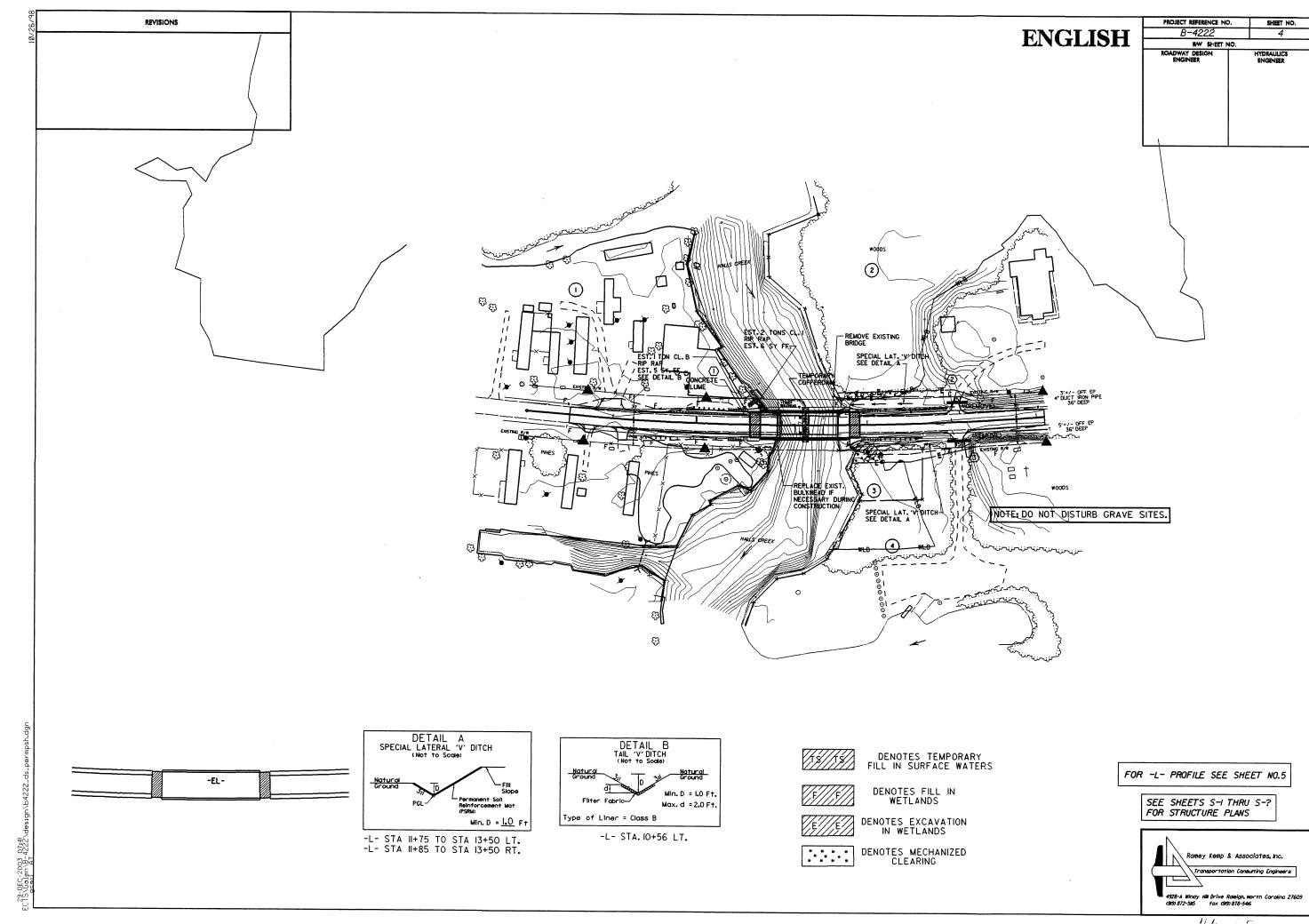
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

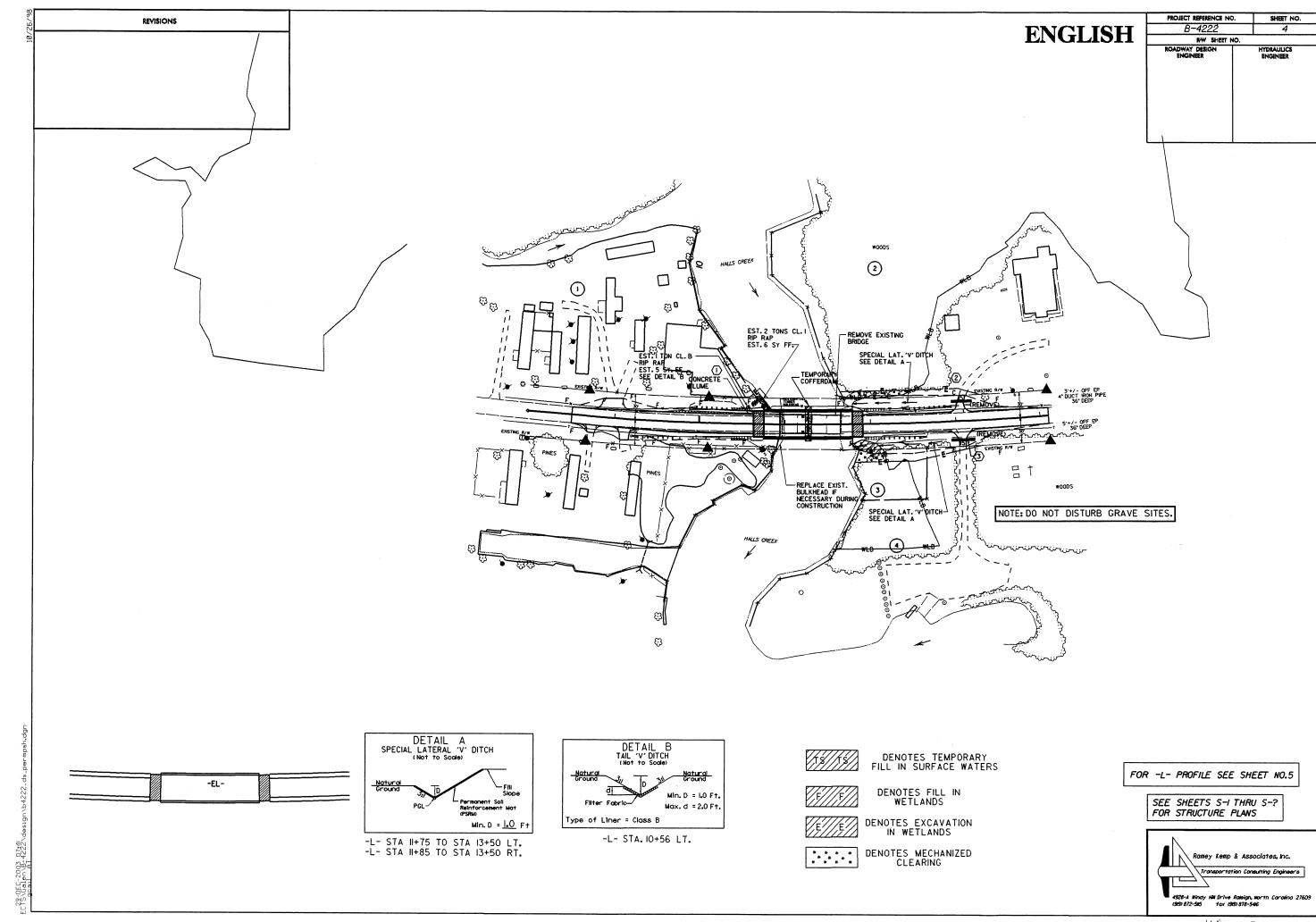
PASQUOTANK COUNTY

PROJECT: 8.2110401 (B-4222)
PROPOSED REPLACEMENT OF
BRIDGE No. 24 ON SR 1140
OVER HALL'S CREEK

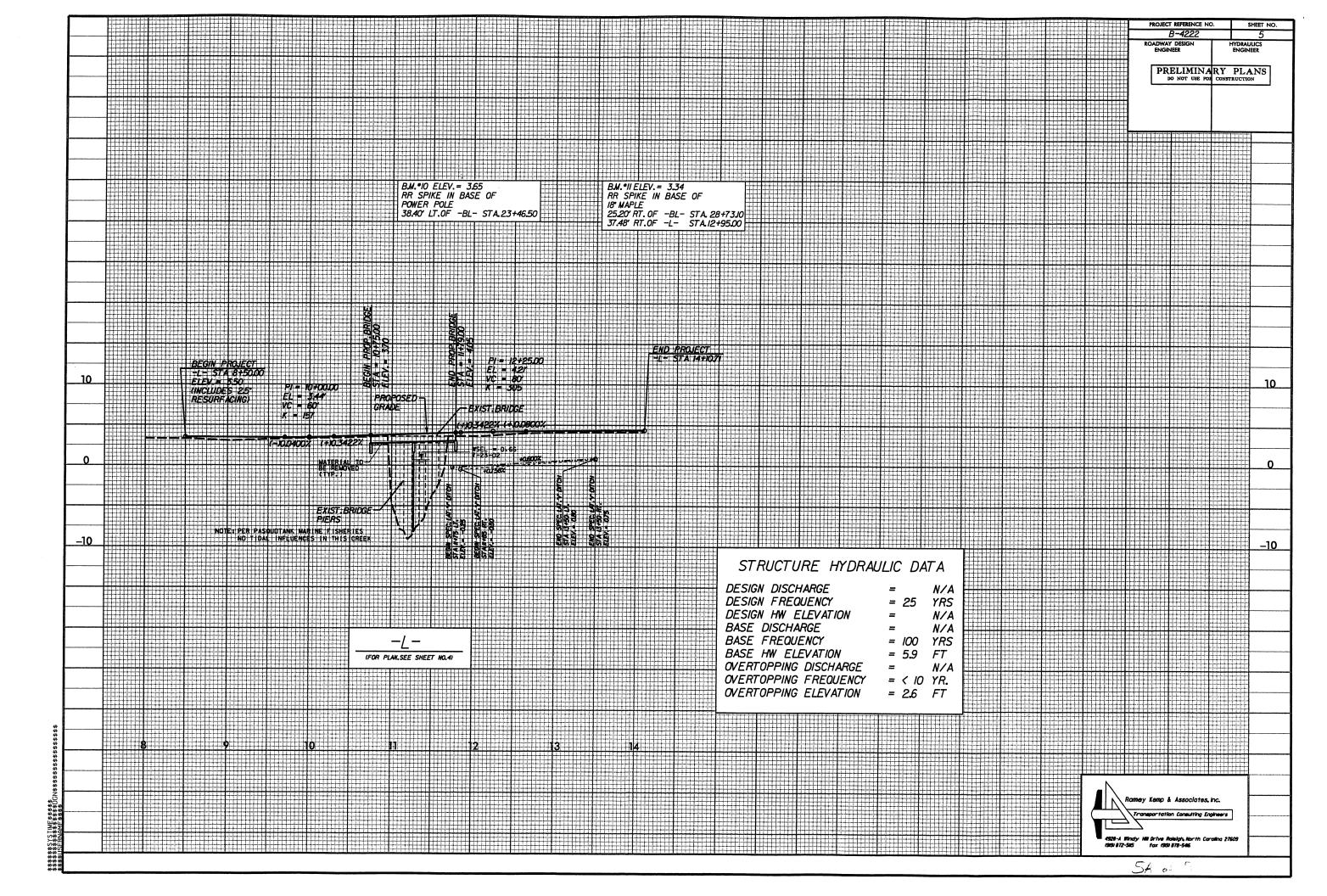
SHEET 3 of 7

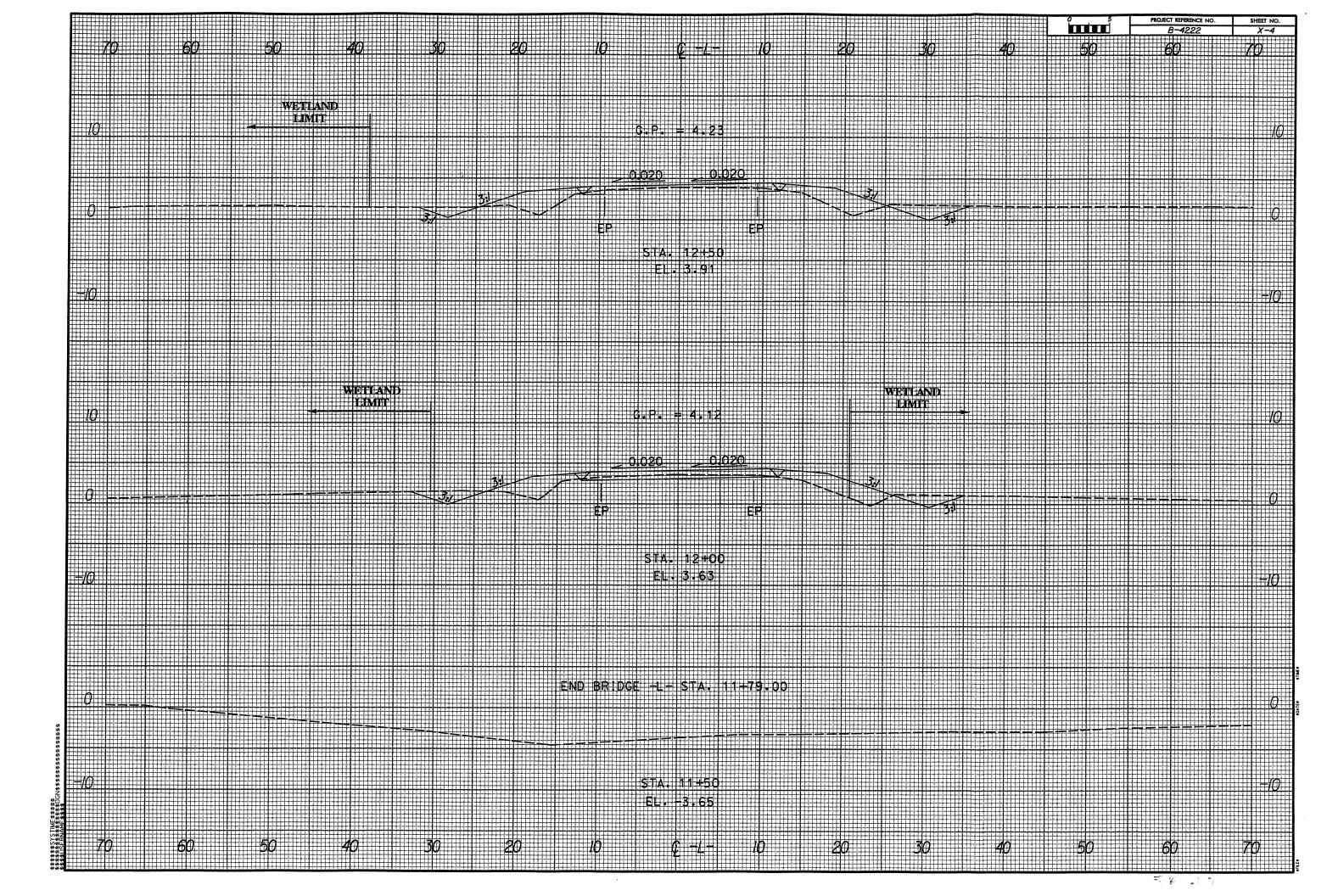
9/29/03





LIN





Project No. 8.2110401 (B-4222) Property Owner List For Each Site

Parcel No.	Name	Address
1	Robert C. Collie	P.O. Box 1625 Elizabeth City, N.C. 27909
2	Nixonton Ruritan Club	694 Body Rd. Elizabeth City, N.C. 27909
3	Mary Pritchard	104 Marian Avenue Elizabeth City, N.C. 27909
4	N.C. Wildlife Commision	1720 Mail Service Center Raleigh, N.C. 27699-1720

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

PASQUOTANK COUNTY

PROJECT: 8.2110401 (B-4222)
PROPOSED REPLACEMENT OF
BRIDGE No. 24 ON SR 1140
OVER HALL'S CREEK

SHEET 6 OF 7

9/29/03

				II	IMPACT SUMMARY WETLAND IMPACTS	IMMARY		SURFA	SURFACE WATER IMPACTS	NPACTS	
Site No.	Station (From/To)	Structure Size	Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In Pond	* Temp. Fill In SW (ac)	Existing Channel Impacted (ff)	Natural Stream Design (ft)
-	11+65 / 12+50	21" Cored Slab Bridge	0.01	1	< 0.01	0.02		r	0.01		
		2 @ 52'-00', L=104'-0"									
			·								
ROLE	PROJECT TOTALS:		0.010	0.000	0.000	0.020	0.000	0.000	0.010	0:0	0:0
									N C DEPT OF TRANSPORTATION	TATACASMAT	S

* Temporary impact due to need for temporary cofferdam with approximate dimensions of 7'x40'

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

PASQUOTANK COUNTY

PROJECT: 33556.1.1 NCDOT T.I.P. No: B-4222

OF 7

SHEET

12/1/03